Project D
Fetch a list of full-resolution and thumbnail image names by date and time

Overview

In this project you develop a Python program that takes a start date, end date, start time and end-time and builds a list of matching image and thumbnail images from a mysql database query.

Both the full-resolution and thumbnail images have the same middle portion, but different endings. Thumbnail images end in .png, while full-resolution images end in .jpg. In addition image names in the mysql database are prefixed with a path (something like /tmp/motion) that should be removed.

Your program should return a list of full-resolution image names and a list of corresponding thumbnail images.

Getting Started

Load the mysql database following the instructions. You will not need to install Flask or the actual image files, since all we need for this program is the information on the names from the database.

You can use the python file supplied with the earlier assignment: python_sql_template.py as a starting point.

Tasks

For each file retrieved in the data range, generate the needed image and thumbnail name.

For instance, if this image name:

```
/tmp/motion/01-20170217182733-02.jpg
```

is returned from a query like this:

```
mysql> select filename from bats where time_stamp between '2017-02-17
23:27:33' and '2017-02-17 23:28:00' ;
+-----------------------------------+
| filename                          |
+-----------------------------------+
| /tmp/motion/01-20170217182733-02.jpg |
+-----------------------------------+
1 row in set (0.00 sec)

mysql>
```

then your program should generate:

```
/home/vagrant/static/images01-20170217182733-02.jpg
```

and

`/home/vagrant/static/images/thumbnails/01-20170217182733-02.png`

for all the files in a specified date range.